WORX®

SAFETY AND OPERATING MANUAL

High frequency multi-function tool WX670 WX671

SAFETY INSTRUCTIONS

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.
The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. WORK AREA SAFETY

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. ELECTRICAL SAFETY

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3. PERSONAL SAFETY

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4. POWER TOOL USE AND CARE

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5. BATTERY TOOL USE AND CARE

a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

6. SERVICE

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

ADDITIONAL SAFETY POINTS FOR YOUR TOOL

1. Never use your multi-sander for wet sanding with accessories, also for sawing, scraping, cutting, polishing, and separating.
2. Always wear eye protection.
3. Always wear ear protection during extended periods of operation..
4. Always wear a dust mask if the operation is dusty.
5. Always inspect and remove all nails and screws etc before sanding.
6. Always check walls and ceilings to avoid hidden power cables and pipes. A metal detector can be obtained from any good DIY store for this purpose.
7. If possible, use clamping devices or other suitable means to secure the workpiece to a firm surface.

8. Use the original accessories and the tool provided, no others.
9. Only use accessories in good condition. Do not use torn or worn accessories.
10. Do not use a damaged plug and cable, if damaged have them repaired. Always be aware of the cord location.
11. Do not abuse the cord. Never use the cord to carry the tools or pull the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.
12. Do not restart the cutting operation in the workpiece, Let the tool reach full speed and carefully reenter the cut.
13. Unplug your tools before mounting or replacing accessories.
14. Do not "jam" the cut-off saw blade or apply excessive pressure, Do not attempt to make an excessive depth of cut.
15. Keep your hands away from cutting area. Do not reach under the material being cut.
16. Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
17. The operating instructions and the enclosed safety information should be kept carefully for later use and enclosed with the machine, should it be passed on or sold.

WARNING!
Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

1) Lead from lead-based paint.
2) Crystalline silica from bricks and cement and other masonry products.
3) Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

- Work in a well-ventilated area.
- Work with approved safety equipment, such as those dust masks that are specially designed to filter microscopic particles.

WARNING! Whilst working with this power tool, hand/arm vibrations occur. Adopt the correct working practices in order to reduce the exposure to vibration.

CAUTION: Do not let familiarity with your sander make you careless. Remember that a careless fraction of a second is sufficient to cause severe injury.

SYMBOLS

To reduce the risk of injury, user must read instruction manual

Warning

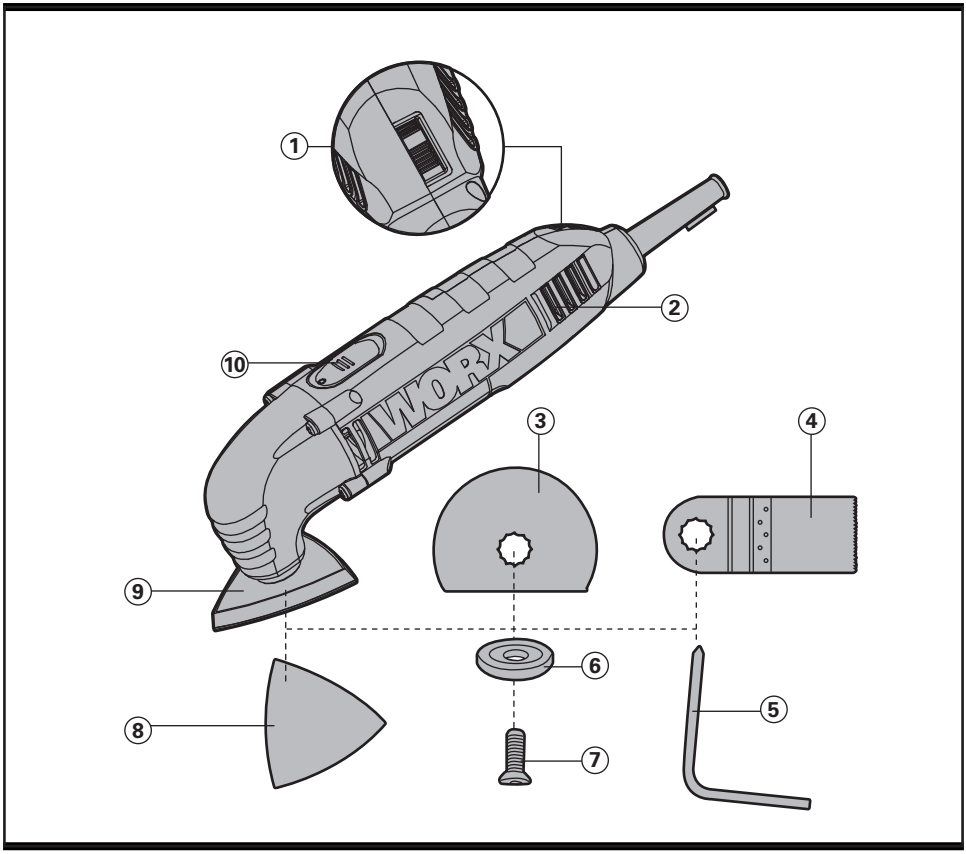
Wear eye protection

Double insulation

Wear ear protection

Wear dust mask

WEEE marking



1.	VARIABLE SPEED CONTROL (WX671)
2.	VENTING SLOTS
3.	SEGMENT SAW BLADE*
4.	STANDARD STRAIGHT CUTTER*
5.	ALLEN KEY
6.	FLANGE
7.	BOLT
8.	SANDING PAPER*
9.	SANDING PAD*
10.	ON/OFF SWITCH

***Not all the accessories illustrated or described are included in standard delivery.**

TECHNICAL DATA

	WX670	WX671
Rated voltage	220-240 V~50/60 Hz	
Rated power	250 W	
Oscillations speed	20000 /min	11000-20000 /min
Oscillations angle	3.2°	
Protection class	⧈/II	
Weight	1.3 Kg	

NOISE INFORMATION

A weighted sound pressure	85 dB (A)
A weighted sound power	96 dB (A)
K_{PA}&K_{WA}	3.0 dB (A)
Wear ear protection when sound pressure is over	85dB(A)

VIBRATION INFORMATION

Vibration total values (triax vector sum) determined according to EN 60745:	
Typical weighted vibration	Vibration emission value a_h = 5.42 m/s²
	Uncertainty K = 1.5 m/s²

WARNING: The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.
The tool being in good condition and well maintained.
The use the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles and if any anti vibration accessories are used.
And the tool is being used as intended by its design and these instructions.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.

WARNING: To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may

significantly reduce the exposure level over the total working period.

Helping to minimise your vibration exposure risk.
ALWAYS use sharp chisels, drills and blades.
Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate)
If the tool is to be used regularly then invest in anti vibration accessories.
Avoid using tools in temperatures of 10^0C or less.
Plan your work schedule to spread any high vibration tool use across a number of days.

ACCESSORIES

Allen key	**1**
Segment saw blade	**1**
Standard straight cutter	**1**
Sanding pad	**1**
Sanding paper (80,120,180# Each 2) WX670	**6**
Sanding paper (80,120,180# Each 5) WX671	**15**

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

OPERATION INSTRUCTIONS

NOTE: Before using the tool, read the instruction book carefully.

1. MOUNTING THE TOOL (See A1.A2)

CAUTION: For all work or when changing application tools,always wear protective gloves. Danger of injury from the sharp edges of the application tools. Application tools can become very hot while working. Danger of burns!

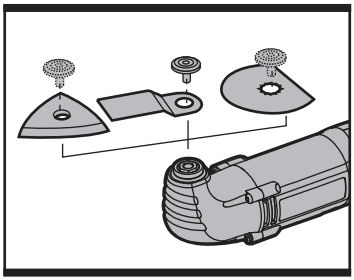
WARNING: Do not let the segment saw blade (3) and the straight cutter (4) face backwards like A2, that may hurt user's hand.

Unscrew the bolt (7).

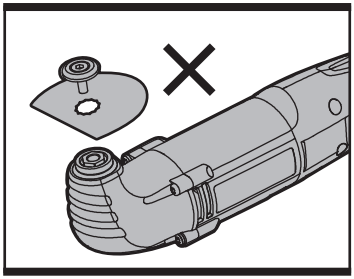
Clean the tool holder, the application tool and the bolt (7).

Place the application tool exactly onto the hex-shaped tool holder. Pay attention that the application tool has a flush fit.

Tighten the bolt (7) using the supplied Allen key.



A1



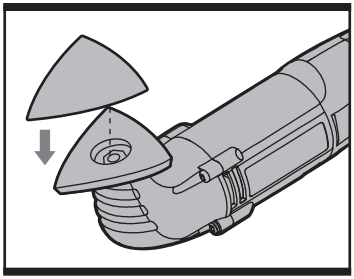
A2

2. MOUNTING / CHANGING THE SANDING SHEET (See B)

Align the sanding sheet and press it onto the sanding plate by hand.

Firmly press the power tool with the sanding sheet against a flat surface and briefly switch the power tool on. This provides for good adhesion and prevents premature wear.

If one point has become worn, pull off the sanding sheet, turn it through 120° and place it on again.



B

3. OPERATING THE ON/OFF SWITCH

— Switching the power tool ON:
Slide switch (10) forwards (**I**).
— Switching the power tool OFF:
Slide switch (10) backwards (**O**).

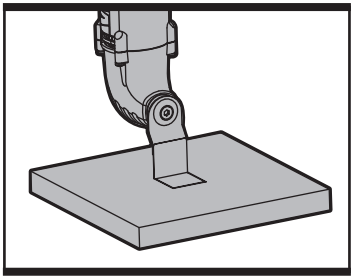
4. USING THE VARIABLE SPEED CONTROL (WX671)

Select oscillation frequency while the motor is running.

The variable speed control (1) can be used to set the optimum oscillating frequency according to the accessories used and the respective application.

High oscillation frequency:
Sanding, sawing, rasping and polishing stone and metal.

Low oscillation frequency:
Polishing varnishes.



c

5. SECURING THE WORK PIECE

CAUTION: Before working your tool make sure that no live cables will be damaged.

WARNING: Do not touch the gear box after long working time, because it could be hot.

Sanding

Typical application: wood, metal; small areas, especially corners, edges and places difficult to access.
Select high oscillation frequency (WX671).
Sanding with a constant movement and light pressure.
Pressing on heavily does not increase the removal – the sanding sheet merely becomes worn faster.

Sawing with the segment saw blade

Typical application: wood, plastics, sheet metal.
Select high oscillation frequency (WX671).
The saw blade lasts longer if the wear is distributed evenly. To ensure an even distribution, loosen the saw blade, turn it round a little and then tighten again firmly.

Sawing with the standard straight cutter (see C)

WARNING: The sawing teeth are very sharp. Do not touch during mounting and application.

The workpiece must be inserted firmly or clamped tightly before it is processed.

Typical application: wood, plaster board and soft plastics. Not suitable for metal (e. g. nails) and stone.
When plunging and sawing with a slight pendulum motion, make sure that sufficient chip removal is provided for.

WORKING HINTS FOR YOUR TOOL

If your power tool becomes too hot, especially when used at low speed, set the speed to maximum and run it with no load for 2-3 minutes to cool the motor. Avoid prolonged usage at very low speeds. Always keep the blade sharp.
Always ensure the work-piece is firmly held or clamped to prevent movement.
Any movement of the material may affect the quality of the cutting or sanding finish.
Start your tool before working and turn it off only after you stop working.
Do not start sanding without having the sandpaper fitted.
Do not allow the sandpaper to wear away it will damage the base-plate. The guarantee does not cover base-plate wear and tear.
Use coarse grit paper to sand rough surfaces, medium grit for smooth surfaces and fine grit for the final surfaces. If necessary, first make a test run on scrap material.
Excessive force will reduce the working efficiency and cause motor overload.
Replacing the accessory regularly will maintain optimum working efficiency.

MAINTENANCE

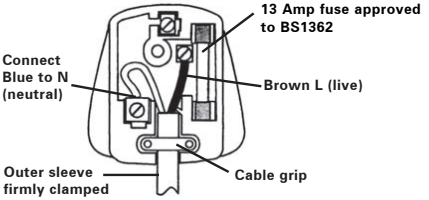
Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust.
Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

ENVIRONMENTAL PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

PLUG REPLACEMENT (UK & IRELAND ONLY)

If you need to replace the fitted plug then follow the instructions below.
IMPORTANT
The wires in the mains lead are colored in accordance with the following code:
BLUE =NEUTRAL
Brown = Live
As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue must be connected to the terminal which is marked with N.
The wire which is colored brown must be connected to the terminal which is marked with L.
WARNING: Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved 13ABS1363/A plug and the correct rated fuse.
NOTE: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.



DECLARATION OF CONFORMITY

We,
Positec Power Tools YO51 9NR, UK

Declare that the product,
Description
WORX High frequency multi-function tool
Type **WX670 WX671**

Complies with the following Directives,
EC Machinery Directive **98/37/EC**
EC Low Voltage Directive **2006/95/EC**
EC Electromagnetic Compatibility Directive **2004/108/EC**

Standards conform to
EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3
EN 60745-1
EN 60745-2-4

Jacky Zhou

2008/05/08
Jacky Zhou
POSITEC Quality Manager

you've got the power

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